PATENT & TRADEMARK OFFICE
SEP 25 2006
OIPE
1AP1

Fig 1A

5'-UTS → **start codon**

5-GACCCTAGAT CCCAAGATCT CCAAGGATTT GGTGGCATAC CCACTCCAGC ACACAGAAGC ATGAGGTTCA

exon 1 **intron 1** **exon 2**

TGACTCTCCT CTTCCTGACA GCTCTGGCAG GAGCCCTGGT CTGTGCCT ⇑ AT GATCCAGAGG CCGCCTCTGC

intron 2 **exon 3**

CCCAGGATCG GGGAACC ⇑ CTT GCCATGAAGC ATCAGCAGCT CAAAAGGAAA ATGCAGGTGA AGACCCAGGG

intron 3 **exon 4**

TTAGCCAGAC AGGCACCAAA GCCAAGGAAG CAGAGATCCA GCCTTCTGG ⇑ A AAAAGGCCTA GACGGAGCAA

intron 4

AAAAAGCTGT GGGGGGACTC GGAAAACTAG GAAAAGATGC AGTCGAAGAT CTAGAAAGCG TGGGTAAAGG ⇑

exon 5 **stop codon**

AGCCGTCCAT GACGTTAAAG ACGTCCTTGA CTCAGTACTA TAGCTGTAAG GAGAAGCTGA GAAATGATAC

← 3'-UTS

CCAGGAGCAG CAGGCTTTAC GTTTTCAGCC TAAAACCT

Fig 1B

MRFMTLLFLT ALAGALVCAY DPEAASAPGS GNPCHEASAA QKENAGEDPG LARQAPKPRK QRSSLLEKGL DGAKKAVGGL GKLGKDAVED LESVGKGAVH DVKDVLDSVL

Fig. 2

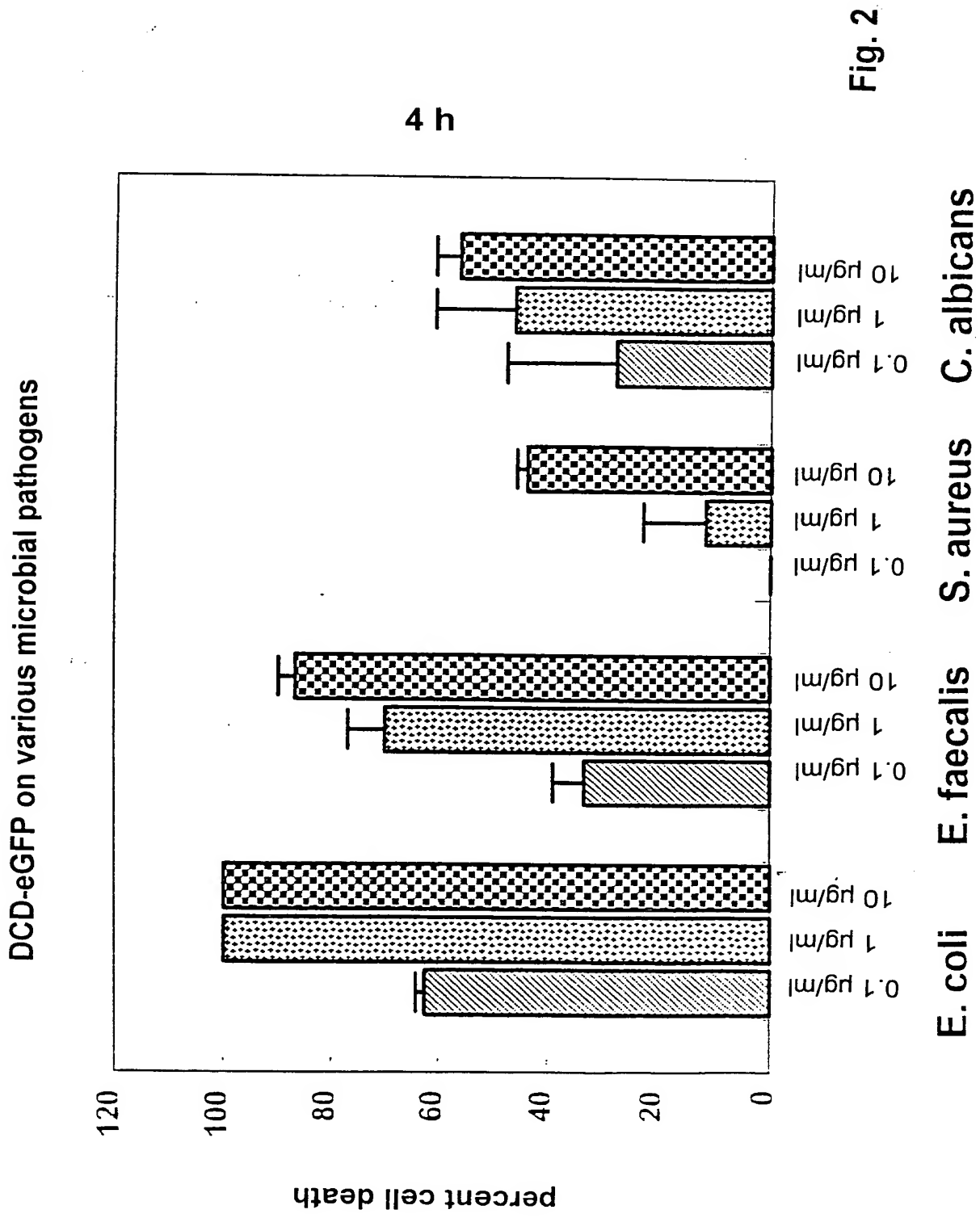

4 h
DCD-eGFP on various microbial pathogens
percent cell death
120
100
80
60
40
20
0
E. coli
E. faecalis
S. aureus
C. albicans
0.1 µg/ml
1 µg/ml
10 µg/ml

Fig. 3

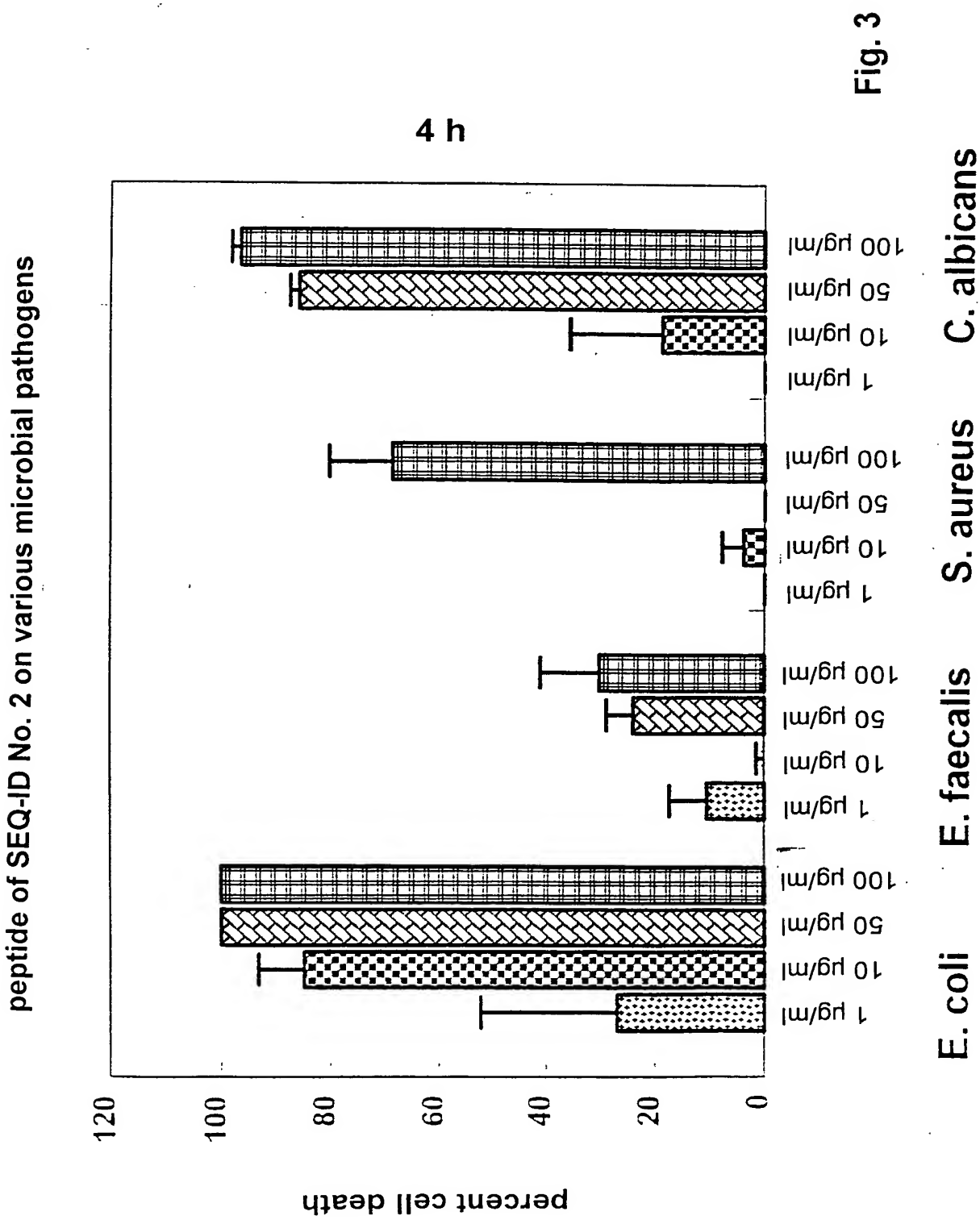

4 h
peptide of SEQ-ID No. 2 on various microbial pathogens
percent cell death
0
20
40
60
80
100
120
E. coli
E. faecalis
S. aureus
C. albicans
1 µg/ml
10 µg/ml
50 µg/ml
100 µg/ml

Fig. 4

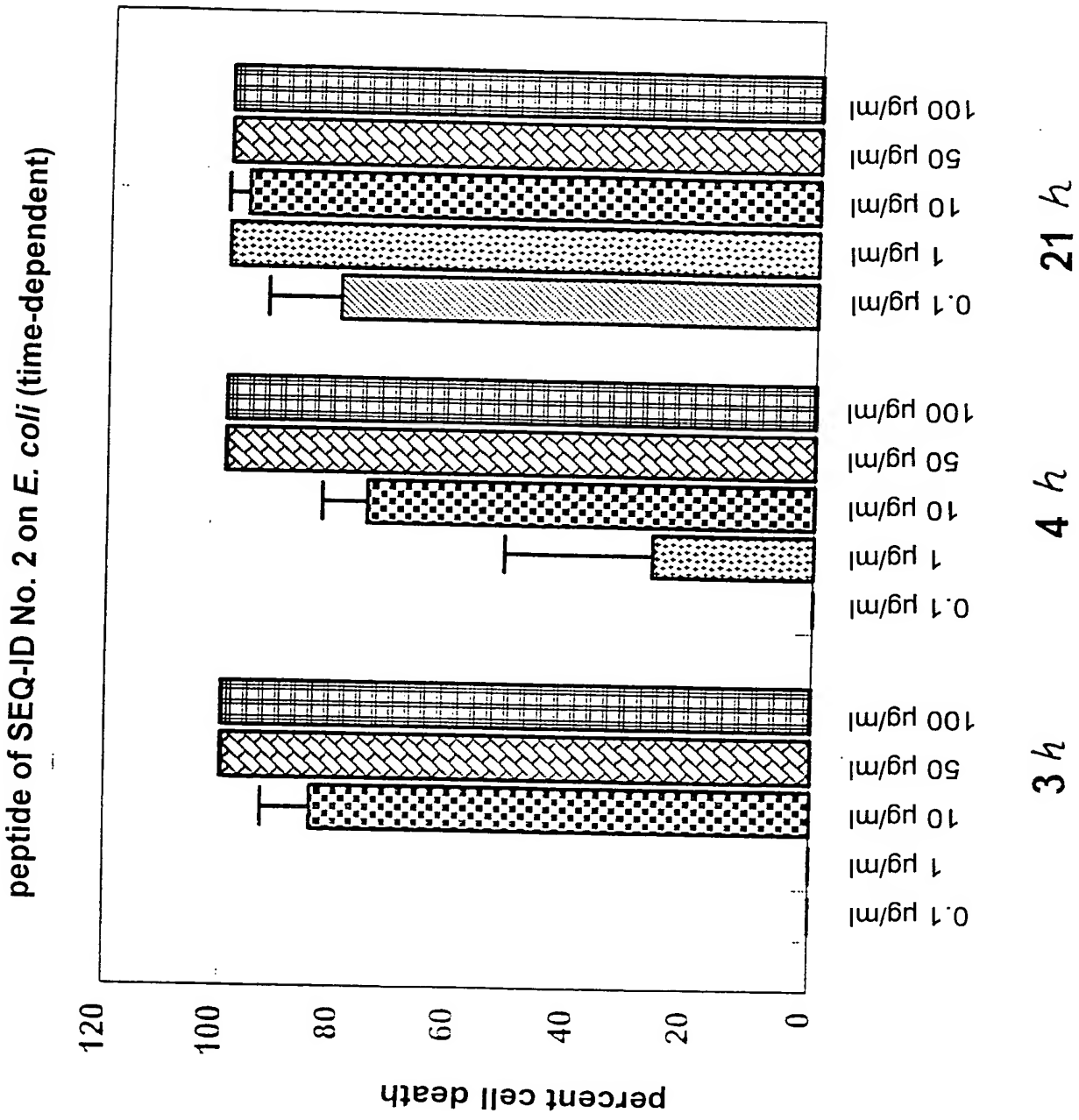
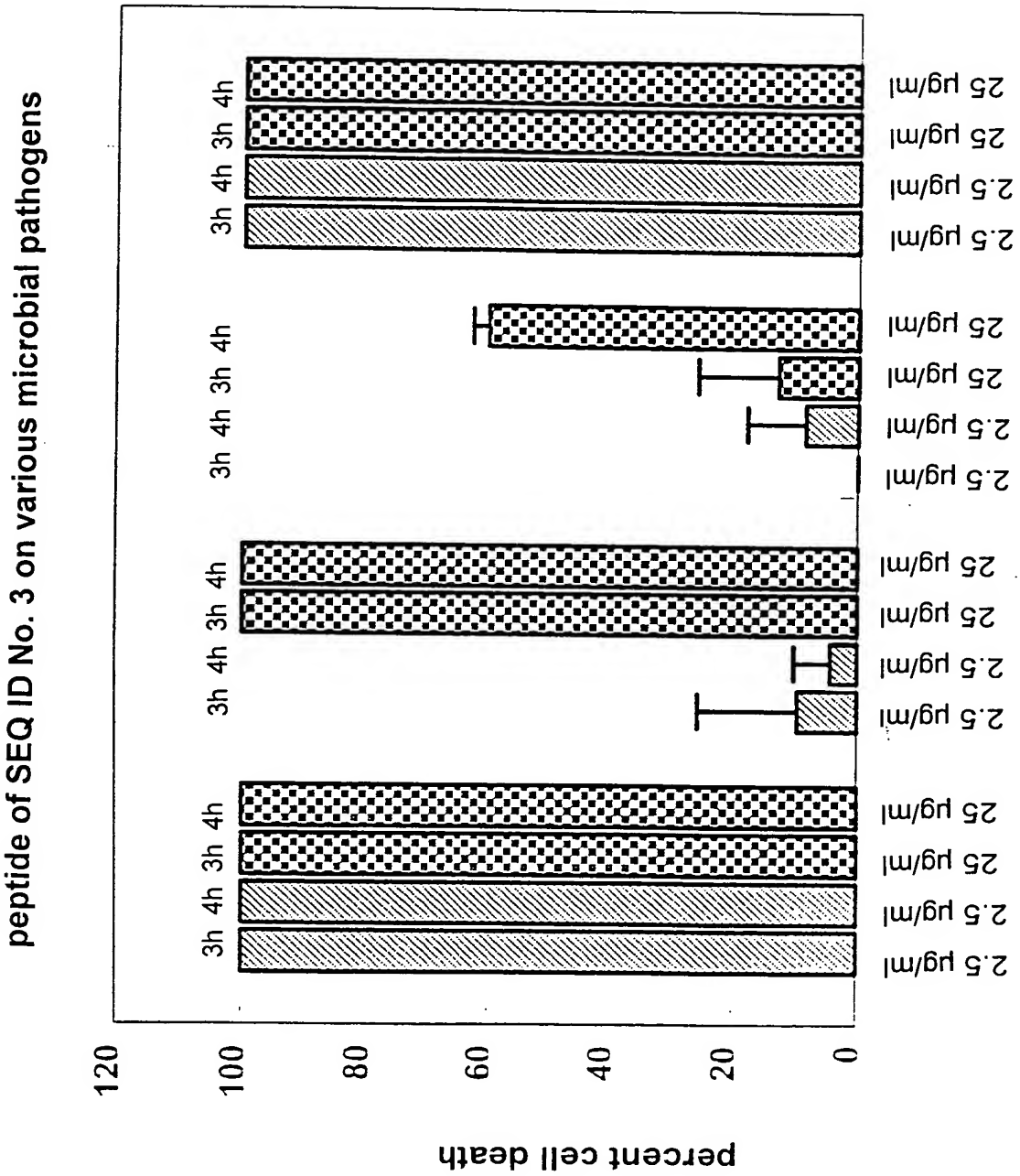

peptide of SEQ-ID No. 2 on E. coli (time-dependent)
percent cell death
120
100
80
60
40
20
0
0.1 µg/ml
1 µg/ml
10 µg/ml
50 µg/ml
100 µg/ml
3 h
4 h
21 h

Fig. 5


peptide of SEQ ID No. 3 on various microbial pathogens
percent cell death
120
100
80
60
40
20
0
E. coli
E. faecalis
S. aureus
C. albicans
2.5 µg/ml
25 µg/ml
3h 4h
3h 4h 3h 4h